

**SYSTEM AND METHOD FOR PROVIDING A MEDICAL
LEAD BODY HAVING DUAL CONDUCTOR LAYERS**

ABSTRACT OF THE DISCLOSURE

5 An implantable medical lead and lead body, method of manufacturing the same, and a system and method for stimulating a portion of a body is disclosed. In one advantageous embodiment, a lead body assembly is formed by preparing a first layer unitary body comprising a first plurality of conductors. An inner layer 10 of extrusion material is placed on the first layer unitary body. A second plurality of conductors coated with extrusion material is placed on the inner layer. An outer layer of extrusion material is placed over the second plurality of conductors. Heat shrink tubing is placed over the assembly and the assembly is 15 heated to melt the extrusion material. The extrusion material is compressed around the conductors. The assembly is cooled and the heat shrink tubing is removed. The solidified extrusion material forms a protective wall that encapsulates the first and second plurality of conductors in the lead body.